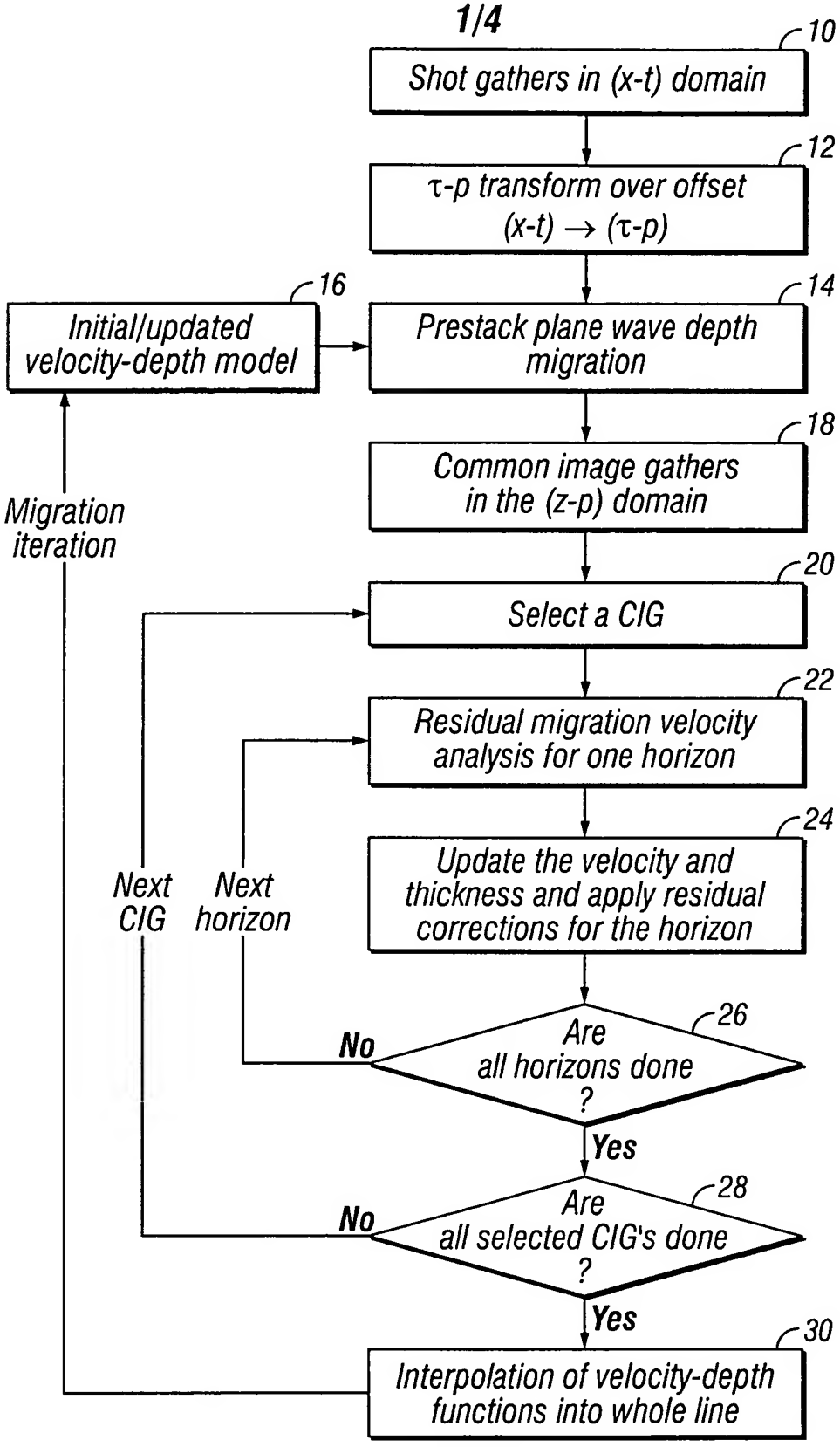

FIG. 1
(Prior Art)

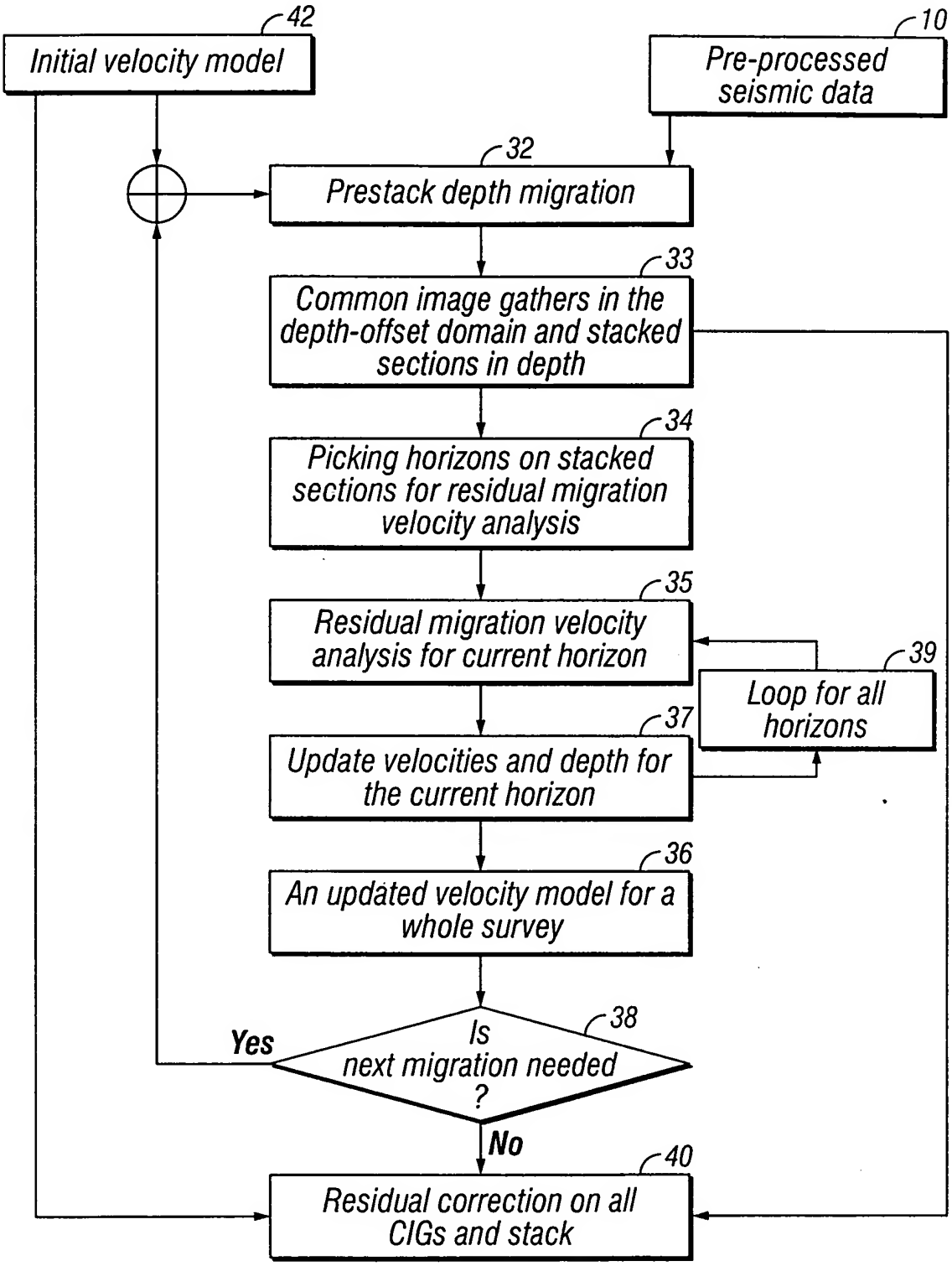
42
Initial velocity model
10
Pre-processed seismic data
32
Prestack depth migration
33
Common image gathers in the depth-offset domain and stacked sections in depth
34
Picking horizons on stacked sections for residual migration velocity analysis
35
Residual migration velocity analysis for current horizon
39
Loop for all horizons
37
Update velocities and depth for the current horizon
36
An updated velocity model for a whole survey
38
Is next migration needed ?
Yes
No
40
Residual correction on all CIGs and stack

FIG. 2

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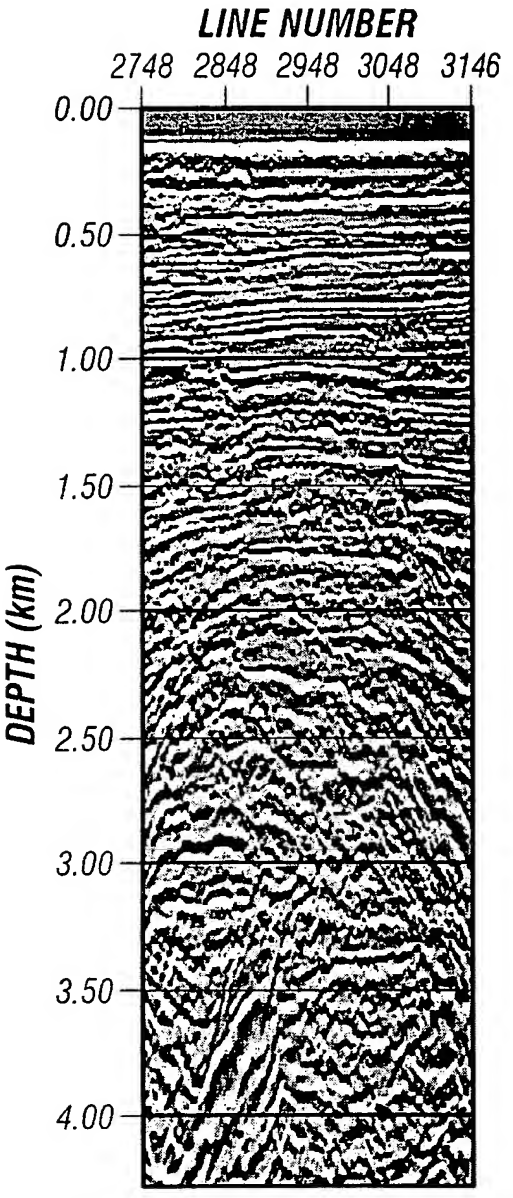
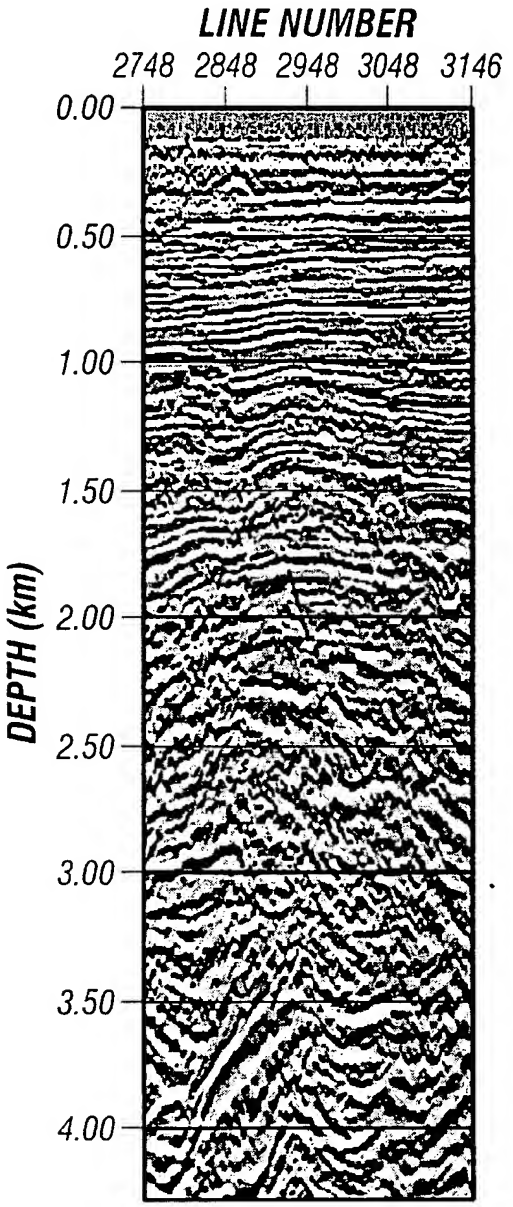


Migrated image
using initial velocity model

FIG. 3a



Migrated image
using updated velocity model

FIG. 3b

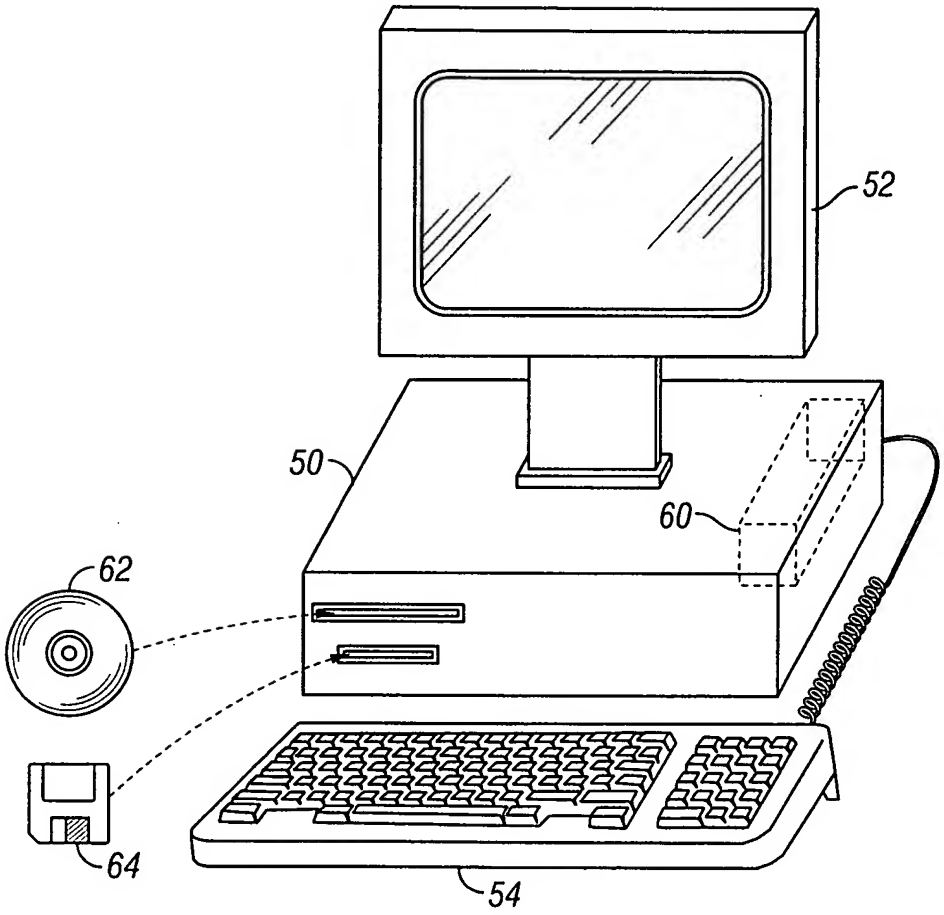


FIG. 4